

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: PORTFOLIO

Report Number: P250171

Luminaire Tested: **LSR8B100D010 EC8B100935 8LBM0WH**

Issue Date: 03/03/2020

Test Information

Test Method: LM-79-08
Report Number: P250171
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (P13942)
Test Lab: INNOVATION CENTER-P1
Issue Date: 03/03/2020
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: PORTFOLIO
Catalog Number: LSR8B100D010 EC8B100935 8LBM0WH
Description: PORTFOLIO 8 INCH MEDIUM DISTRIBUTION 55 DEG CUTOFF RECESSED
DOWNLIGHT- CYLINDEC
90 CRI 3500 CCT WITH WHEAT TRIM
Light Source: -
Ballast/Driver: -

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 9304.0 lumens
Efficiency: N/A
Efficacy: 87.5 lumens/watt
Spacing Criteria (0/90/45): 0.84 / 0.8 / 0.85
Luminous Opening: Circular (Dia: 0.67' x H: 0')
CIE Type: Direct

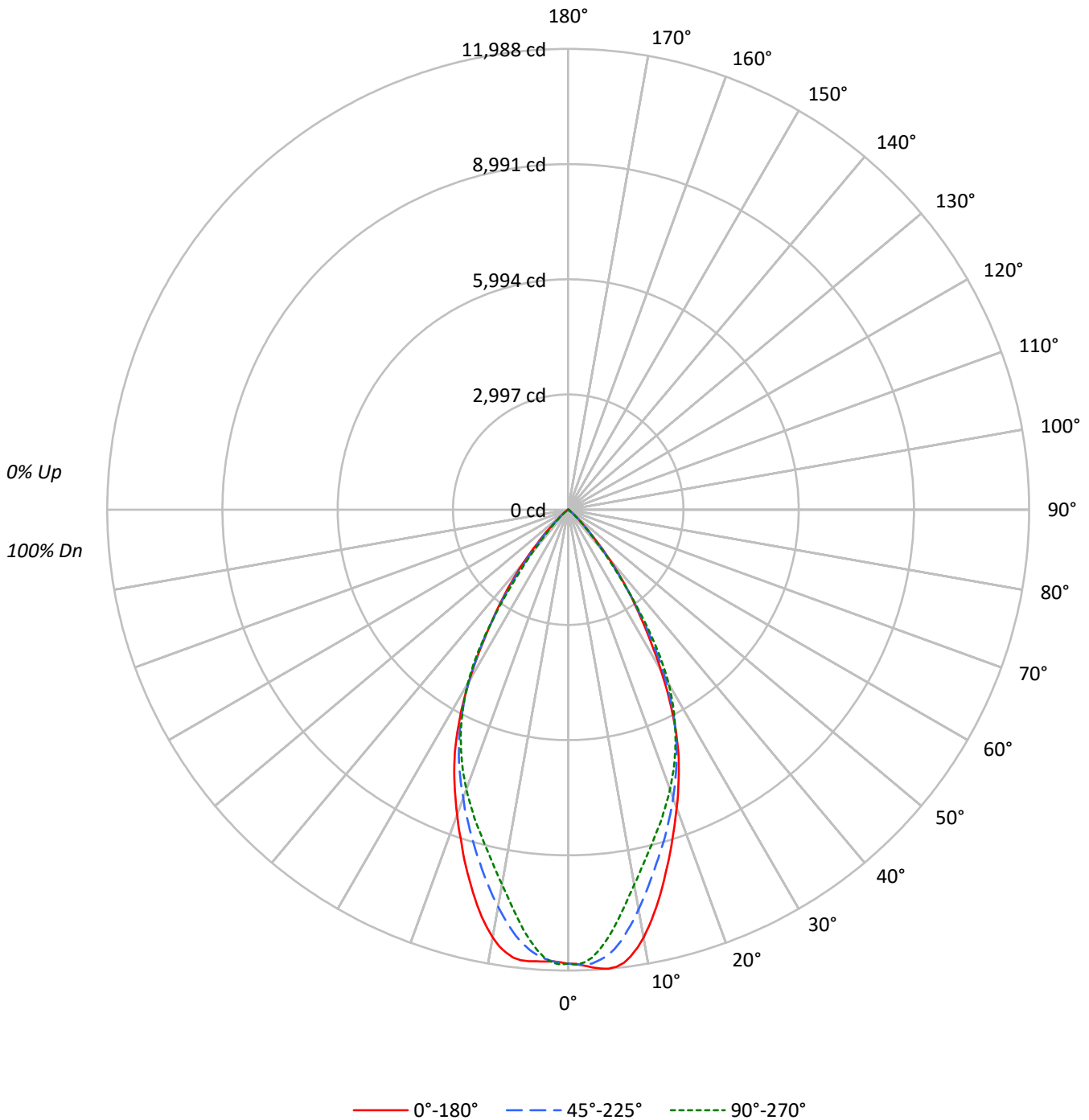
Input Watts (W): 106.3
Input Voltage (V): NR
Input Current (A_{in}): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Luminous Intensity Polar Plot





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COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20					20					20					20					20					
RC	80					70					50					30					10					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	50	30	10	0		
RCR																										
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100					100			
1	114	111	108	106	111	109	107	105	105	103	101	101	100	98	98	97	96	94					94			
2	108	103	99	96	106	102	98	95	98	95	93	95	93	91	93	91	89	87					87			
3	103	97	92	88	101	95	91	87	93	89	86	90	87	84	88	85	83	81					81			
4	98	90	85	81	96	89	84	80	87	83	79	85	81	78	83	80	77	76					76			
5	93	85	79	75	91	84	78	74	82	77	74	80	76	73	79	75	72	71					71			
6	88	80	74	69	87	79	73	69	77	72	69	76	72	68	75	71	68	66					66			
7	84	75	69	65	83	74	69	65	73	68	64	72	67	64	71	67	64	62					62			
8	80	71	65	61	79	70	64	61	69	64	60	68	63	60	67	63	60	58					58			
9	76	67	61	57	75	66	61	57	65	60	57	64	60	56	64	59	56	55					55			
10	73	63	57	54	72	63	57	54	62	57	53	61	56	53	60	56	53	52					52			

AVERAGE LUMINANCE (cd/sqm):

	0°	90°	180°
0°	364103	364103	364103
5°	371093	348611	365048
10°	353810	310124	353719
15°	312428	279709	317741
20°	270749	253886	277155
25°	228758	224852	237158
30°	171934	186141	183688
35°	115093	121685	124821
40°	64483	55353	73959
45°	25917	22786	30797
50°	8952	8678	10607
55°	2468	2935	2779
60°	1418	1770	1591
65°	1255	1043	839
70°	0	775	523
75°	0	0	0
80°	0	0	515
85°	0	0	0



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ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	1071.9	11.5
10°-20°	2592.5	27.9
20°-30°	3038.6	32.7
30°-40°	1999.2	21.5
40°-50°	521.7	5.6
50°-60°	64.2	0.7
60°-70°	13.3	0.1
70°-80°	2.5	0.0
80°-90°	0.1	0.0
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	6703.0	72.0
0°-40°	8702.3	93.5
0°-60°	9288.1	99.8
0°-90°	9304.0	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	9304.0	100.0

CANDELA DISTRIBUTION:

	0°	45°	90°	135°	180°	Flux
0°	11808	11808	11808	11808	11808	
5°	11988	11647	11262	11495	11793	###
15°	9787	9232	8762	9232	9953	2728
25°	6723	6657	6609	6721	6970	3031
35°	3057	3126	3232	3264	3316	1914
45°	594	560	522	606	706	533
55°	46	49	55	55	52	61
65°	17	14	14	12	12	12
75°	0	3	0	0	0	2
85°	0	0	0	0	0	0
90°	0	0	0	0	0	



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CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
0°	11807.6	11807.6	11807.6	11807.6	11807.6	11807.6	11807.6	11807.6	11807.6
1°	11816.2	11833.5	11839.1	11856.4	11830.6	11813.4	11790.4	11773.1	11776.0
2°	11867.9	11876.5	11844.9	11833.5	11787.5	11773.1	11755.9	11753.0	11755.9
3°	11922.5	11905.2	11821.9	11744.5	11675.5	11666.9	11698.5	11744.5	11770.2
4°	11965.5	11919.6	11744.5	11600.9	11491.8	11483.2	11609.5	11727.2	11776.0
5°	11988.5	11905.2	11646.8	11405.7	11262.2	11316.7	11494.7	11704.2	11793.2
6°	11956.9	11833.5	11497.6	11176.0	11012.4	11084.2	11345.4	11649.7	11781.8
7°	11876.5	11718.6	11305.2	10926.3	10725.3	10837.3	11170.3	11557.8	11738.7
8°	11727.2	11537.7	11061.2	10636.3	10438.2	10564.5	10955.0	11425.8	11635.4
9°	11532.0	11322.4	10820.1	10372.2	10159.8	10309.0	10731.1	11250.6	11491.8
10°	11299.5	11075.5	10553.1	10096.6	9904.3	10044.9	10489.9	11046.8	11296.6
11°	11026.7	10811.4	10286.1	9838.3	9654.5	9792.3	10248.8	10802.8	11072.6
12°	10731.1	10533.0	10013.4	9588.5	9416.2	9548.3	9990.4	10550.2	10817.2
13°	10435.3	10237.2	9749.3	9347.3	9189.4	9315.7	9737.7	10274.6	10541.5
14°	10116.7	9935.8	9485.1	9117.6	8974.1	9094.7	9479.4	9996.1	10248.8
15°	9786.6	9643.0	9232.5	8896.6	8761.7	8876.5	9232.5	9709.0	9953.0
16°	9476.5	9344.4	8988.4	8678.4	8566.5	8658.3	8982.8	9422.0	9654.5
17°	9160.7	9040.1	8744.4	8463.1	8362.6	8451.6	8727.2	9132.0	9341.6
18°	8844.9	8744.4	8477.5	8236.3	8147.3	8227.7	8474.6	8839.2	9028.6
19°	8552.1	8460.2	8233.5	8029.6	7949.3	8021.0	8253.6	8557.9	8747.3
20°	8250.7	8176.0	7977.9	7811.4	7736.8	7802.8	7983.7	8279.4	8445.9
21°	7960.7	7894.7	7722.4	7581.7	7521.5	7576.1	7742.5	8009.5	8155.9
22°	7659.3	7622.0	7467.0	7349.2	7309.1	7343.5	7495.6	7725.3	7863.1
23°	7363.6	7329.2	7211.4	7113.9	7079.4	7113.9	7248.8	7455.5	7578.9
24°	7065.0	7027.7	6941.6	6878.4	6849.7	6878.4	6993.2	7168.4	7286.1
25°	6723.4	6717.7	6657.4	6622.9	6608.6	6640.1	6720.6	6872.7	6970.3
26°	6396.1	6378.9	6361.7	6355.9	6358.8	6376.0	6442.0	6556.9	6634.4
27°	5994.2	6020.1	6045.9	6080.4	6091.8	6106.2	6137.8	6221.0	6278.4
28°	5609.5	5658.3	5721.5	5790.4	5822.0	5822.0	5824.8	5870.8	5919.6
29°	5227.7	5279.4	5379.9	5483.2	5526.3	5520.5	5497.6	5517.6	5546.4
30°	4828.7	4894.7	5029.7	5164.6	5227.7	5204.8	5161.7	5141.6	5158.8
31°	4438.3	4504.3	4653.6	4800.0	4883.2	4857.4	4782.7	4768.4	4777.0
32°	4065.1	4131.1	4268.8	4423.9	4518.6	4484.2	4406.7	4383.7	4386.6
33°	3703.3	3755.0	3881.3	4024.9	4102.4	4093.7	4030.6	4001.9	4004.7
34°	3361.7	3404.8	3499.5	3608.6	3683.2	3680.3	3634.4	3637.3	3645.9
35°	3057.4	3080.4	3126.3	3186.6	3232.5	3258.3	3264.1	3287.1	3315.8
37.5°	2311.0	2319.6	2265.1	2204.7	2193.3	2268.0	2397.1	2509.1	2552.2
40°	1601.9	1581.8	1512.9	1406.7	1375.1	1458.4	1622.0	1779.9	1837.3
42.5°	996.2	987.6	944.5	864.1	835.4	884.2	1007.6	1128.3	1185.6
45°	594.3	582.7	559.8	528.2	522.5	542.6	605.7	674.6	706.2
47.5°	341.6	338.8	324.4	312.9	310.1	324.4	353.1	393.3	401.9
50°	186.6	183.8	180.9	180.9	180.9	189.4	203.8	215.3	221.1
52.5°	91.9	94.8	91.9	94.8	97.6	103.3	100.4	112.0	112.0
55°	45.9	43.1	48.8	54.6	54.6	54.6	54.6	54.6	51.7
57.5°	34.4	37.3	31.6	34.4	31.6	31.6	28.7	31.6	34.4



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CANDELA DISTRIBUTION (continued):

	0°	22.5°	45°	67.5°	90°	112.5°	135°	157.5°	180°
60°	23.0	20.1	23.0	25.8	28.7	25.8	20.1	23.0	25.8
62.5°	11.5	11.5	11.5	17.2	25.8	20.1	17.2	14.3	14.3
65°	17.2	11.5	14.3	17.2	14.3	14.3	11.5	14.3	11.5
67.5°	8.6	14.3	8.6	5.8	8.6	11.5	8.6	5.8	5.8
70°	0.0	2.9	2.9	8.6	8.6	8.6	8.6	5.8	5.8
72.5°	2.9	2.9	2.9	5.8	2.9	5.8	2.9	2.9	5.8
75°	0.0	0.0	2.9	2.9	0.0	2.9	0.0	0.0	0.0
77.5°	2.9	0.0	2.9	2.9	0.0	0.0	0.0	2.9	0.0
80°	0.0	0.0	2.9	0.0	0.0	0.0	0.0	0.0	2.9
82.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
85°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
87.5°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)